## Amendments to the Claims

Please amend claims as shown below in the List of Claims.

## **List of Claims**

## 1-12. (Canceled)

- 13. (Currently amended) A process for the production of an L-amino acid chosen from the group consisting of L-threonine, L-isoleucine, L-valine, L-methionine, L-homoserine and L-lysine comprising:
  - a) fermenting a bacterium comprising an overexpressed endogenous DNA sequence encoding the galactose-proton symporter protein in said bacterium, in a fermentation medium under conditions suitable for the production of said L-amino acid, wherein:
    - i) said bacterium is of the an Enterobacteriaceae family;
    - ii) said galactose-proton symporter protein comprises the amino acid sequence of SEQ ID NO:4 and is encoded by the nucleotide sequence of SEQ ID NO:3;
    - iii) said L-amino acid is produced from glucose, saccharose, lactose, fructose, molasses, starch, cellulose or from glycerine and ethanol;
    - iv) said overexpression is achieved by increasing the copy number of said DNA or by operably linking said DNA to a promoter; and
  - b) allowing said L-amino acid to become enriched in said bacteria or said fermentation medium.
- 14. (Previously presented) The process of claim 13, wherein said galactose-proton symporter protein consists of the amino acid sequence of SEQ ID NO:4.
- 15. (Currently amended) The process of claim 14, wherein said DNA sequence encoding the galactose-proton symporter protein comprises consists of the nucleotide sequence of SEQ ID NO:3.

- 16. (Previously presented) The process of claim 13, wherein said DNA sequence encoding the galactose-proton symporter protein consists of the nucleotide sequence of SEQ ID NO:3.
- 17. (Previously presented) The process of claim 13, wherein overexpression is achieved by increasing the copy number of said DNA.
- 18. (Previously presented) The process of claim 13, wherein said L-amino acid is L-threonine.
- 19. (Previously presented) The process of any one of claims 13-16, further comprising isolating said L-amino acid along with some or all of the constituents of said fermentation medium and/or the biomass in said fermentation medium.
- 20. (Previously presented) The process of claim 19, wherein said L-amino acid is L-threonine.
- 21. (Previously presented) The process of claim 13, wherein said microorganism overexpresses one or more genes selected from the group consisting of:
  - a) the thrABC operon coding for aspartate kinase, homoserine dehydrogenase, homoserine kinase and threonine synthase;
  - b) the pyc gene coding for pyruvate carboxylase;
  - c) the pps gene coding for phosphoenolpyruvate synthase;
  - d) the ppc gene coding for phosphoenolpyruvate carboxylase;
  - e) the pntA and pntB genes coding for transhydrogenase,
  - f) the rhtB gene which imparts homoserine resistance;
  - g) the mgo gene coding for malate:quinone oxidoreductase;
  - h) the rhtC gene which imparts threonine resistance;
  - i) the thrE gene coding for threonine export protein;
  - j) the gdhA gene coding for glutamate dehydrogenase;
  - k) the glk gene coding for glucokinase;
  - the hns gene coding for DNA binding protein HLP-II;
  - m) the pgm gene coding for phosphoglucomutase;

- n) the fba gene coding for fructose biphosphate aldolase;
- o) the ptsH gene coding for phosphohistidine protein hexose phosphotransferase;
- p) the ptsI gene coding for enzyme I in the phosphotransferase system;
- q) the crr gene coding for the glucose-specific IIA component;
- r) the ptsG gene coding for the glucose-specific IIBC component;
- s) the lrp gene coding for a regulator in the leucine regulon;
- t) the csrA gene coding for the global regulator Csr;
- u) the fadR gene coding for a regulator in the fad regulon;
- v) the iclR gene coding for a regulator in central intermediary metabolism;
- w) the mopB gene coding for the 10 KDa chaperone;
- x) the ahpC gene coding for the small sub-unit of alkyl hydroperoxide reductase;
- y) the ahpF gene coding for the large sub-unit of alkyl hydroperoxide reductase;
- z) the cysK gene coding for cysteine synthase A;
- aa) the cysB gene coding for the regulator in the cys regulon;
- bb) the cysJ gene coding for the flavoprotein in NADPH sulfite reductase;
- cc) the cysI gene coding for haemoprotein in NADPH sulfite reductase;
- dd) the cysH gene coding for adenylylsulfate reductase;
- ee) the phoB gene coding for the positive regulator PhoB in the pho regulon;
- ff) the phoR gene coding for the sensor protein in the pho regulon;
- gg) the phoE gene coding for protein E in the outer cell membrane;
- hh) the pykF gene coding for the pyruvate kinase I stimulated by fructose;
- ii) the pfkB gene coding for 6-phosphofructokinase II;
- jj) the malE gene coding for periplasmatic binding protein in maltose transport;
- kk) the sodA gene coding for superoxidedismutase;
- ll) the rseA gene coding for a membrane protein with anti-sigmaE activity;
- mm) the rseC gene coding for a global regulator in the sigmaE factor;
- nn) the sucA gene coding for the decarboxylase sub-unit of 2-ketoglutarate dehydrogenase;
- 00) the sucB gene coding for the dihydrolipoyl-transsuccinase E2 subunit of 2-ketoglutarate dehydrogenase;
- pp) the sucC gene coding for the  $\beta$ -subunit of succinyl-CoA synthetase;
- qq) the sucD gene coding for the  $\alpha$ -subunit in succinyl-CoA synthetase;
- rr) the adk gene coding for adenylate kinase;

- ss) the hdeA gene coding for a periplasmatic protein with a chaperonin-like function;
- tt) the hdeB gene coding for a periplasmatic protein with a chaperonin-like function;
- uu) the icd gene coding for isocitrate dehydrogenase;
- vv) the mglB gene coding for periplasmatic, galactose-binding transport protein;
- ww) the lpd gene coding for dihydrolipoamide dehydrogenase;
- xx) the aceE gene coding for the E1 component of pyruvate dehydrogenase complex;
- yy) the aceF gene coding for the E2 component of pyruvate dehydrogenase complex;
- zz) the pepB gene coding for aminopeptidase B;
- aaa) the aldH gene coding for aldehyde dehydrogenase;
- bbb) the bfr gene coding for the iron storage homoprotein;
- ccc) the udp gene coding for uridine phosphorylase; and
- ddd) the rseB gene coding for the regulator of sigmaE factor activity.
- 22. (Previously presented) The process of claim 13, wherein at least one gene in said microorganism is attenuated, said gene being selected from the group consisting of:
  - a) the tdh gene coding for threonine dehydrogenase;
  - b) the mdh gene coding for malate dehydrogenase;
  - c) the gene product of the open reading frame (ORF) yifA;
  - d) the gene product of the open reading frame (ORF) ytfP;
  - e) the pckA gene coding for the enzyme phosphoenol-pyruvate carboxykinase;
  - f) the poxB gene coding for pyruvate oxidase;
  - g) the aceA gene coding for isocitrate lyase;
  - h) the dgsA gene coding for the DgsA regulator in the phosphotransferase system;
  - i) the fruR gene coding for fructose repressor;
  - j) the rpoS gene coding for the sigma<sup>38</sup>-Factor;
  - k) the aspA gene coding for aspartate ammonium lyase; and
  - 1) the aceB gene coding for malate synthase A gene.
- 23. (Currently amended) A process for the production of an L-amino acid chosen from the group consisting of L-threonine, L-isoleucine, L-valine, L-methionine, L-homoserine and L-lysine comprising:
  - a) fermenting a bacterium comprising an overexpressed endogenous DNA sequence encoding the galactose-proton symporter protein in said bacterium, in a

fermentation medium under conditions suitable for the production of said Lamino acid, wherein:

- i) said bacterium is of the <u>an</u> Enterobacteriaceae <u>family</u> and transports glucose by a PEP-dependent phosphotransferase (PTS) pathway;
- ii) said galactose-proton symporter protein comprises the amino acid sequence of SEQ ID NO:4;
- said L-amino acid is produced from glucose, saccharose, lactose, fructose, molasses, starch[[,]], cellulose or from glycerine and ethanol;
- iv) said overexpression is achieved by increasing the copy number of said DNA or by operably linking said DNA to a promoter; and
- b) allowing said L-amino acid to become enriched in said bacteria or said fermentation medium.
- 24. (Previously presented) The process of claim 23, further comprising isolating said L-amino acid along with some or all of the constituents of said fermentation medium and/or the biomass in said fermentation medium.
- 25. (Currently amended) The process of claim 24, wherein said bacterium is selected from the group consisting of: Escherichia coli H4581; Escherichia coli KY10935; Escherichia coli VNIIgenetika MG442; Escherichia coli VNIIgenetika M1; Escherichia coli VNIIgenetika 472T23 (US-A-5,631,157); Escherichia coli BKIIM B-3996; Escherichia coli kat 13; and Escherichia coli KCCM-10132.
- 26. (Previously presented) The process of claim 25, wherein said L-amino acid is L-threonine.